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hopper located at a first end of said casing, a filtration section located close to the head of said screw, and positioned perpendicular to the axis of said screw, a connecting flange positioned downstream from the filtration section, and an extrusion head comprising a conveyer element and a die communicating with the exterior, so as to define a second end of said casing, said process comprising the steps of:

- a) conveying at least one conducting element inside of said extruder;
 - b) feeding the polymeric material and the mineral filler, optionally premixed with other components of said composition, into said extruder via said charging hopper;
 - c) filtering said composition transferred and plasticized by said extrusion screw; and
 - d) depositing said composition onto said at least one conducting element;
- whereby the filtration operation is performed by using a filter support plate defining a plurality of sectors within which the filtered composition flows.

21. (New) A process according to Claim 20, wherein said filter support plate is positioned downstream of said extrusion screws..

22. (New) A process according to Claim 20, wherein the filtration efficiency (E) is greater than 0.8.

23. (New) A process according to Claim 22, wherein the filtration efficiency (E) is greater than 0.9.

24. (New) A process according to Claim 20, wherein said composition has a Melt Flow Index lower than 15 g/10 min (measured as per the standard ASTM 1238, with a capillary of diameter 2 mm, using a weight of 21 kg and heating the composition to a temperature of 240°C).

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25. (New) A process according to Claim 20, wherein said mineral filler quantity lies between 50% and 80% by weight relative to the total weight of the composition.

26. (New) A process according to Claim 20, wherein said mineral filler is a fire resistant filler.

27. (New) A process according to Claim 20, wherein the cable obtained at the exit from said extruder is conveyed to at least one cooling unit..

28. (New) A process according to Claim 20, wherein the cable obtained at the exit from said extruder is conveyed to at least one crosslinking unit.

29. (New) A process according to Claim 20, wherein said at least one conducting element is subjected to a constant pull by a system of pulleys, gears, or pulleys and gears.

30. (New) A process according to Claim 29, wherein the speed of said pull lies between 600 and 1500 m/min.

31. (New) A process according to Claim 20, wherein downstream from said at least one cooling unit, said cable is subjected to a drying stage.

32. (New) An apparatus for the production of a cable having at least one covering layer consisting of a composition comprising at least one polymeric material and a mineral filler in a quantity greater than 30% by weight relative to the total weight of the composition, said apparatus comprising:

at least one charging hopper for feeding the polymeric material and said mineral filler, optionally premixed together or with other components of said composition;

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